

Application Serial No. 10/581,231
Reply to final office action of November 19, 2009

PATENT
Docket: CU-4813

Amendments to the Claims

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

Listing of claims:

1. **(currently amended)** A synchronous digital hierarchy tributary module supporting multiple service processing, including a Synchronous Digital Hierarchy (SDH) tributary processing unit and service processing units; wherein there are at least two service processing units connected with the SDH tributary processing unit respectively, for mapping and unmapping corresponding service signals; the SDH tributary processing unit is for multiplexing and demultiplexing multiple service signals in an SDH signal;

wherein the SDH tributary processing unit and the at least two service processing units are disposed on one board;

the tributary module further includes a multiple service cross processing unit which is used to implement interconnection among different services, each service processing unit being connected to a local interface through the multiple service cross processing unit; and the multiple service cross processing unit being adapted to interconnect service signals unmapped by the at least two service processing units, and further adapted to transfer a service signal from the local interface to the service processing units ~~unit~~ for mapping and transfer an unmapped service signal from the service processing units ~~unit~~ to the local interface; and

wherein the SDH tributary processing unit separates out the service signals corresponding to different service processing units, according to different time slots corresponding to the SDH signals of different services.

2-4. (canceled)

5. (previously presented) The synchronous digital hierarchy tributary module supporting multiple service processing according to claim 1, wherein a cross module of

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a SDH equipment node time-division multiplexes multiple service SDH signals into one SDH signal.

6. (previously presented) The synchronous digital hierarchy tributary module supporting multiple service processing according to claim 5, wherein the services to be sent from the local to the SDH side are mapped by the service processing units respectively and sent to the SDH tributary processing unit for multiplexing, different services being multiplexed in different time slots, and the cross module of the SDH equipment node transmits the signals of different time slots to corresponding line modules or other tributary modules.

7. (currently amended) An SDH equipment node using the synchronous digital hierarchy tributary module, including a plurality of local interfaces, a plurality of line modules, a cross module connected with the line modules respectively and a plurality of SDH tributary modules connected with the cross module respectively; wherein the SDH tributary module comprises an SDH tributary processing unit and at least two service processing units connected with the SDH tributary processing unit respectively, the service processing units ~~unit~~ being for mapping and unmapping corresponding service signal, and the SDH tributary processing unit being for multiplexing and demultiplexing multiple service signals in an SDH signal;

wherein the SDH tributary processing unit and the at least two service processing units are disposed on one board;

the tributary module further includes a multiple service cross processing unit which is used to implement interconnection among different services, each service processing unit being connected to a local interface through the multiple service cross processing unit; and the multiple service cross processing unit being adapted to interconnect service signals unmapped by the at least two service processing units, and further adapted to transfer a service signal from the local interface to the service processing units ~~unit~~ for mapping and transfer an unmapped service signal from the service processing units ~~unit~~ to the local interface; and

wherein the SDH tributary processing unit separates out the service signals

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corresponding to different service processing units, according to different time slots
corresponding to the SDH signals of different services.

8. (canceled)

9. (original) The SDH equipment node according to claim 7, wherein the cross module of the SDH equipment node time-division multiplexes multiple service SDH signals into one SDH signal.

10. (previously presented) The SDH equipment node according to claim 9, wherein the services to be sent from the local to the SDH side are mapped by the service processing units respectively and sent to the SDH tributary processing unit for multiplexing, different services being multiplexed in different time slots, and the cross module of the SDH equipment node transmits the signals of different time slots to the corresponding line modules or other tributary modules.

11-18. (canceled)